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United States Department of Agriculture,

OFFICE OF EXPERIMENT STATIONS—CIRCULAR 70.

A. C. TRUE, Director.

PUBLICATIONS OF THE OFFICE OF EXPERIMENT STATIONS FROM ITS ORGANIZATION TO JUNE 30, 1906.

The publications of the Office of Experiment Stations are of four main classes: (1) Experiment Station Record, which gives a technical review of the current literature of agricultural investigation throughout the world, and Experiment Station Work, which is published periodically in the Farmers' Bulletin series of the Department and gives a popular summary of some of the more salient practical results of the work of the experiment stations. In this class should also be included the bimonthly list of experiment station publications which is regularly published by the Office. (2) Publications relating to the food and nutrition of man, consisting of technical and popular bulletins, circulars, etc., reporting or based upon the results of nutrition investigations conducted under the auspices of the Office. (3) Publications relating to irrigation and drainage, which include reports, technical and popular bulletins, circulars, etc., giving the results of the irrigation and drainage investigations of the Office. (4) Miscellaneous publications, including those relating to agricultural education in general, including farmers' institutes, proceedings of the Association of Agricultural Colleges and Experiment Stations, and of the Association of Farmers' Institute Workers, annual reports of the Director and of the Office of Experiment Stations, and similar publications. Numerous separates of special articles in the larger publications of the Office are also issued.

In the following list the publications are classed according to series as Experiment Station Record, annual reports, bulletins, circulars, farmers' bulletins, farmers' institute lectures, Yearbook articles, bimonthly lists of station publications, card index of station literature, and charts.

EXPERIMENT STATION RECORD.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science, and notes on the experiment stations.

For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents, Government Printing Office, Washington, D. C., has fixed the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

Experiment Station Record, Vols. I (1889-90), Nos. 1-6; II (1890-91), Nos. 1-12, W. O. Atwater, Editor; III (1891-92), Nos. 1-12, A. W. Harris, Editor; IV (1892-93), Nos. 1-12; V (1893-94), Nos. 1-12; VI (1894-95), Nos. 1-12; VII (1895-96), Nos. 1-12; VIII (1896-97), Nos. 1-12; IX (1897-98), Nos. 1-12; X (1898-99), Nos. 1-12, A. C. True, Editor; XI (1899-1900), Nos. 1-12; XII (1900-1901), Nos. 1-12; XIII (1901-2), Nos. 1-12; XIV (1902-3), Nos. 1-12; XV (1903-4), Nos. 1-12; XVI (1904-5), Nos. 1-12; XVII (1905-6), Nos. 1-9; General Index to Experiment Station Record, Vols. I-XII, E. W. Allen, Editor.

ANNUAL REPORTS

The annual reports of the Office are of two kinds, (1) a brief administrative report of the Director giving a summary of the work of the Office during the year for incorporation in the annual report of the Department, and (2) a larger annual report of the Office especially authorized by act of Congress, in which administrative details receive very brief attention and an attempt is made to show the progress of agricultural education and research in the United States during the period covered by the report. This is done by means of detailed accounts of the work of the Office and of the several agricultural experiment stations and by articles illustrating progress in nutrition, irrigation, and drainage investigations, farmers' institutes, and agricultural education, and in various special lines of investigation at the experiment stations. The larger part of the edition of the latter report is reserved for distribution through Senators and Representatives in Congress. A smaller number of copies are usually available for distribution by the Secretary of Agriculture. Copies can also be purchased from the Superintendent of Documents, at the price affixed. The supply of reports marked with an asterisk (*) is exhausted, but separates of the main portions of the more recent annual reports of the Office are available for free distribution.

*Reports of the Director of the Office of Experiment Stations for 1888-1890, W. O. Atwater.

*Reports of the Director of the Office of Experiment Stations for 1891 and 1892, A. W. Harris.

*Reports of the Director of the Office of Experiment Stations for 1893-1899, A. C. True.

*Report of the Director of the Office of Experiment Stations for 1900, A. C. True.

*Report of the Director of the Office of Experiment Stations for 1901, A. C. True.

*Annual Report of the Office of Experiment Stations for the Year ended June 30, 1901, A. C. True et al.

*Report of the Director of the Office of Experiment Stations for 1902, A. C. True.

*Report of the Director of the Office of Experiment Stations for 1903, A. C. True.

*Annual Report of the Office of Experiment Stations for the Year ended June 30, 1902, A. C. True et al.

*Report of the Director of the Office of Experiment Stations for 1904, A. C. True.

Annual Report of the Office of Experiment Stations for the Year ended June 30, 1903, A. C. True et al.

Report of the Director of the Office of Experiment Stations for 1905, A. C. True.

Annual Report of the Office of Experiment Stations for the Year ended June 30, 1904, A. C. True et al.

Price, 55 cents.

BULLETINS.

In this list the bulletins marked with an asterisk (*) are not available for distribution by the Office. Those, however, to which a price is affixed may be obtained from the Superintendent of Documents,

at the price named. Bulletins not marked with an asterisk will be furnished free, so long as they are available, to libraries, educational institutions, the press, State and foreign officials connected with agriculture, exchanges, and such persons as are in active cooperation with the Department or render tangible service in its work. Other persons can obtain these from the Superintendent of Documents.

Separates of the principal parts of Bulletins 86, 100, 104, 119, 133, and 158 in the following list have been printed and in most cases are available for free distribution.

- *Bulletin 1. Organization of the Agricultural Experiment Stations in the United States, February, 1889.
- *Bulletin 2. Digest of the Annual Reports of the Agricultural Experiment Stations in the United States for 1888. (Parts I and II.)
- *Bulletin 3. Report of a Meeting of Horticulturists of the Agricultural Experiment Stations at Columbus, Ohio, June 13-14, 1889. A. W. Harris.
- *Bulletin 4. List of Horticulturists of the Agricultural Experiment Stations in the United States, with an Outline of the Work in Horticulture at the Several Stations. W. B. Alwood.
- *Bulletin 5. Organization Lists of the Agricultural Experiment Stations and Agricultural Schools and Colleges in the United States, March, 1890.
- *Bulletin 6. Lists of the Botanists of the Agricultural Experiment Stations in the United States, with an Outline of the Work in Botany at the Several Stations.
- *Bulletin 7. Proceedings of the Fifth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D. C., August 12-18, 1891. A. W. Harris and H. E. Alvord, editors.
- *Bulletin 8. Six Lectures on the Investigations at Rothamsted Experiment Station, Delivered under the Provisions of the Lawes Agricultural Trust, before the Association of American Agricultural Colleges and Experiment Stations, at Washington, D. C., August 12-18, 1891. R. Warington.
- *Bulletin 9. The Fermentations of Milk. H. W. Conn.
- *Bulletin 10. Meteorological Work for Agricultural Institutions. M. W. Harrington.
- *Bulletin 11. A Compilation of Analyses of American Feeding Stuffs. E. H. Jenkins and A. L. Winton.
- *Bulletin 12. Organization Lists of the Agricultural Experiment Stations and Agricultural Schools and Colleges in the United States, June, 1892.
- *Bulletin 13. Organization Lists of the Agricultural Experiment Stations and Agricultural Schools and Colleges in the United States, April, 1893.
- Bulletin 14. Proceedings of a Convention of the National League for Good Roads, held at Washington, D. C., January 17-18, 1893, and Hearing by the Committee on Agriculture in the House of Representatives January 19, 1893.
- *Bulletin 15. Handbook of Experiment Station Work. A Popular Digest of the Publications of the Agricultural Experiment Stations in the United States.
- *Bulletin 16. Proceedings of the Sixth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at New Orleans, La., November 15-19, 1892. A. W. Harris and H. E. Alvord, editors.
- *Bulletin 17. Suggestions for the Establishment of Food Laboratories in Connection with the Agricultural Experiment Stations of the United States. E. Atkinson.
- *Bulletin 18. A Contribution to the Investigation of the Assimilation of Free Atmospheric Nitrogen by White and Black Mustard. J. P. Lotsy.
- *Bulletin 19. Organization Lists of the Agricultural Experiment Stations and Agricultural Schools and Colleges in the United States, January, 1894.
- *Bulletin 20. Proceedings of the Seventh Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, at Chicago, October 17-19, 1893. A. C. True and H. E. Alvord, editors.
- *Bulletin 21. Methods and Results of Investigations on the Chemistry and Economy of Food. W. O. Atwater.
- *Bulletin 22. Agricultural Investigations at Rothamsted, England, During a Period of Fifty Years. Six Lectures Delivered under the Provisions of the Lawes Agricultural Trust. Sir J. H. Gilbert.
- *Bulletin 23. Organization Lists of the Agricultural Experiment Stations and Institutions with Courses in Agriculture in the United States, January, 1895.
- *Bulletin 24. Proceedings of the Eighth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D. C., November 13-15, 1894. A. C. True and H. H. Goodell, editors.

- *Bulletin 25. Dairy Bacteriology. H. W. Conn.
- *Bulletin 26. Agricultural Experiment Stations: Their Objects and Work. A. C. True.
- *Bulletin 27. Organization Lists of the Agricultural Experiment Stations and Institutions with Courses in Agriculture in the United States, January, 1896.
- Bulletin 28. The Chemical Composition of American Food Materials. W. O. Atwater and A. P. Bryant. Price 5 cents.
- Bulletin 29. Dietary Studies at the University of Tennessee in 1895. C. E. Wait et al.
- *Bulletin 30. Proceedings of the Ninth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Denver, Colo., July 16-18, 1895. A. C. True and H. H. Goodell, editors.
- Bulletin 31. Dietary Studies at the University of Missouri in 1895, and Data Relating to Bread and Meat Consumption in Missouri. H. B. Gibson et al. Price 5 cents.
- *Bulletin 32. Dietary Studies at Purdue University, Lafayette, Ind., in 1895. W. E. Stone et al.
- *Bulletin 33. The Cotton Plant: Its History, Botany, Chemistry, Culture, Enemies, and Uses. A. C. True et al.
- *Bulletin 34. The Carbohydrates of Wheat, Maize, Flour, and Bread, and the Action of Enzymic Ferments upon Starches of Different Origin. W. E. Stone.
- Bulletin 35. Food and Nutrition Investigations in New Jersey in 1895 and 1896. E. B. Voorhees. Price 5 cents.
- *Bulletin 36. Notes on Irrigation in Connecticut and New Jersey. C. S. Phelps and E. B. Voorhees. Price 5 cents.
- *Bulletin 37. Dietary Studies at the Maine State College in 1895. W. H. Jordan. Price 5 cents.
- *Bulletin 38. Dietary Studies with Reference to the Food of the Negro in Alabama in 1895 and 1896. Conducted with the Cooperation of the Tuskegee Normal and Industrial Institute and the Agricultural and Mechanical College of Alabama. W. O. Atwater and C. D. Woods. Price 5 cents.
- *Bulletin 39. Organization Lists of the Agricultural Experiment Stations and Institutions with Courses in Agriculture in the United States, February, 1897.
- Bulletin 40. Dietary Studies in New Mexico in 1895. A. Goss. Price 5 cents.
- *Bulletin 41. Proceedings of the Tenth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D. C., November 10-12, 1896. A. C. True and H. H. Goodell, editors.
- Bulletin 42. Cotton Culture in Egypt. G. P. Foaden.
- Bulletin 43. Losses in Boiling Vegetables and the Composition and Digestibility of Potatoes and Eggs. H. Snyder et al. Price 5 cents.
- Bulletin 44. Report of Preliminary Investigations on the Metabolism of Nitrogen and Carbon in the Human Organism, with a Respiration Calorimeter of Special Construction. W. O. Atwater et al. Price 5 cents.
- Bulletin 45. A Digest of Metabolism Experiments in Which the Balance of Income and Outgo was Determined. W. O. Atwater and C. F. Langworthy. Price 25 cents.
- *Bulletin 46. Dietary Studies in New York City in 1895 and 1896. W. O. Atwater and C. D. Woods. Price 10 cents.
- *Bulletin 47. Organization Lists of the Agricultural Experiment Stations and Institutions with Courses in Agriculture in the United States, January, 1898.
- *Bulletin 48. A Report to Congress on Agriculture in Alaska, including Reports by W. H. Evans, B. Killin, and S. Jackson. A. C. True.
- *Bulletin 49. Proceedings of the Eleventh Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Minneapolis, Minn., July 13-15, 1897. A. C. True and H. H. Goodell, editors.
- *Bulletin 50. A Report on the Work and Expenditures of the Agricultural Experiment Stations for the Year ended June 30, 1897. A. C. True.
- *Bulletin 51. Statistics of the Land-Grant Colleges and Agricultural Experiment Stations in the United States for the Year ended June 30, 1897.
- Bulletin 52. Nutrition Investigations in Pittsburgh, Pa., 1894-1896. Isabel Bevier. Price 5 cents.
- Bulletin 53. Nutrition Investigations at the University of Tennessee in 1896 and 1897. C. E. Wait. Price 5 cents.
- Bulletin 54. Nutrition Investigations in New Mexico in 1897. A. Goss. Price 5 cents.
- Bulletin 55. Dietary Studies in Chicago in 1895 and 1896, Conducted with the Cooperation of Jane Addams and Caroline L. Hunt, of Hull House. W. O. Atwater and A. P. Bryant. Price 5 cents.
- *Bulletin 56. History and Present Status of Instruction in Cooking in the Public Schools of New York City. Mrs. L. E. Hogan and A. C. True.
- Bulletin 57. Varieties of Corn. E. L. Sturtevant. Price 10 cents.
- Bulletin 58. Water Rights on the Missouri River and Its Tributaries, E. Mead; Water Laws of Colorado, J. E. Field; Water Laws of Nebraska, J. M. Wilson. Price 10 cents.
- *Bulletin 59. Organization List of the Agricultural Colleges and Experiment Stations in the United States, with a List of Agricultural Experiment Stations in Foreign Countries, January, 1899.

- Bulletin 60. Abstract of Laws for Acquiring Titles to Water from the Missouri River and Its Tributaries, with the Legal Forms in Use. E. Mead. Price 10 cents.
- *Bulletin 61. A Report on the Work and Expenditures of the Agricultural Experiment Stations for the Year ended June 30, 1898. A. C. True.
- Bulletin 62. A Second Report to Congress on Agriculture in Alaska, including Reports by C. C. Georgeson and W. H. Evans. A. C. True.
- Bulletin 63. Description of a New Respiration Calorimeter and Experiments on the Conservation of Energy in the Human Body. W. O. Atwater and E. B. Rosa. Price 10 cents.
- *Bulletin 64. Statistics of the Land-Grant Colleges and Agricultural Experiment Stations in the United States for the Year ending June 30, 1898.
- Bulletin 65. Proceedings of the Twelfth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D. C., November 15-17, 1898. A. C. True, W. H. Beal, and H. H. Goodell, editors. Price 10 cents.
- *Bulletin 66. The Physiological Effects of Creatin and Creatinin and Their Value as Nutrients. J. W. Mallet. Price 5 cents.
- *Bulletin 67. Studies on Bread and Bread Making. H. Snyder and L. A. Voorhees. Price 10 cents.
- *Bulletin 68. A Description of Some Chinese Vegetable Food Materials and Their Nutritive and Economic Value. W. C. Blasdale. Price 10 cents.
- Bulletin 69. Experiments on the Metabolism of Matter and Energy in the Human Body. W. O. Atwater et al. Price 10 cents.
- Bulletin 70. Water-Right Problems of Bear River. C. T. Johnston and J. A. Breckons. Price 15 cents.
- *Bulletin 71. Dietary Studies of Negroes in Eastern Virginia in 1897 and 1898. H. B. Frissell and Isabel Bevier. Price 5 cents.
- Bulletin 72. Farmers' Reading Courses. L. H. Bailey.
- *Bulletin 73. Irrigation in the Rocky Mountain States. J. C. Ulrich. Price 10 cents.
- *Bulletin 74. Organization Lists of the Agricultural Colleges and Experiment Stations in the United States, with a List of Agricultural Experiment Stations in Foreign Countries, January, 1900.
- *Bulletin 75. Dietary Studies of University Boat Crews. W. O. Atwater and A. P. Bryant.
- *Bulletin 76. Proceedings of the Thirteenth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations held at San Francisco, Cal., July 5-7, 1899. A. C. True, W. H. Beal, and H. H. Goodell, editors.
- *Bulletin 77. The Digestibility of American Feeding Stuffs. W. H. Jordan and F. H. Hall. Price 10 cents.
- Bulletin 78. Statistics of the Land-Grant Colleges and Agricultural Experiment Stations in the United States for the Year Ended June 30, 1899.
- *Bulletin 79. Farmers' Institutes: History and Status in the United States and Canada. L. H. Bailey.
- Bulletin 80. The Agricultural Experiment Stations in the United States. A. C. True and V. A. Clark. Price, cloth, \$1.25; paper, \$1.10.
- *Bulletin 81. The Use of Water in Irrigation in Wyoming and Its Relation to the Ownership and Distribution of the Natural Supply. B. C. Buffum. Price 10 cents.
- *Bulletin 82. Report on Agricultural Investigations in Alaska in 1899. C. C. Georgeson.
- *Bulletin 83. A Report on the Work and Expenditures of the Agricultural Experiment Stations for the Year Ended June 30, 1899. A. C. True.
- Bulletin 84. Nutrition Investigations at the California Agricultural Experiment Station, 1896-1898. M. E. Jaffa. Price 5 cents.
- *Bulletin 85. A Report of Investigations on the Digestibility and Nutritive Value of Bread. C. D. Woods and L. H. Merrill. Price 5 cents.
- *Bulletin 86. The Use of Water in Irrigation. Elwood Mead, C. T. Johnston et al. Price 30 cents.
- *Bulletin 87. Irrigation in New Jersey. E. B. Voorhees. Price 5 cents.
- Bulletin 88. Organization Lists of the Agricultural Colleges and Experiment Stations in the United States, with a List of Agricultural Experiment Stations in Foreign Countries, January, 1901.
- *Bulletin 89. Experiments on the Effect of Muscular Work upon the Digestibility of Food and the Metabolism of Nitrogen, Conducted at the University of Tennessee, 1897 to 1899. C. E. Wait.
- *Bulletin 90. Irrigation in Hawaii. Walter Maxwell. Price 10 cents.
- *Bulletin 91. Nutrition Investigations at the University of Illinois, North Dakota Agricultural College, and Lake Erie College, Ohio, 1896 to 1900. H. S. Grindley, E. F. Ladd, Isabel Bevier, et al. Price 5 cents.
- Bulletin 92. The Reservoir System of the Cache la Poudre Valley. E. S. Nettleton. Price 15 cents.
- Bulletin 93. A Report on the Work and Expenditures of the Agricultural Experiment Stations for the Year Ended June 30, 1900. A. C. True.
- *Bulletin 94. Fourth Report on the Agricultural Investigations in Alaska, 1900. C. C. Georgeson. Price 20 cents.
- *Bulletin 95. Report on the Agricultural Resources and Capabilities of Hawaii. W. C. Stubbs. Price. 20 cents.

- Bulletin 96. Irrigation Laws of the Northwest Territories of Canada and of Wyoming. J. S. Dennis, Fred Rond, and J. M. Wilson. Price 10 cents.
- Bulletin 97. Statistics of the Land-Grant Colleges and Agricultural Experiment Stations in the United States for the Year Ended June 30, 1900.
- Bulletin 98. The Effect of Severe and Prolonged Muscular Work on Food Consumption, Digestion, and Metabolism. W. O. Atwater and H. C. Sherman. The Mechanical Work and Efficiency of Bicyclers. R. C. Carpenter. Price 5 cents.
- Bulletin 99. Proceedings of the Fourteenth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations held at New Haven and Middletown, Conn., November 13-15, 1900. A. C. True, W. H. Beal, and H. H. Goodell, editors.
- Bulletin 100. Report of Irrigation Investigations in California. Price \$1.25.
- Bulletin 101. Studies on Bread and Bread Making at the University of Minnesota in 1899 and 1900. Harry Snyder. Price 5 cents.
- Bulletin 102. Experiments on Losses in Cooking Meat, 1898-1900. H. S. Grindley et al. Price 5 cents.
- Bulletin 103. The Evolution of Reaping Machines. M. F. Miller.
- *Bulletin 104. Report of Irrigation Investigations for 1900. E. Mead et al. Price 50 cents.
- *Bulletin 105. Irrigation in the United States. E. Mead. Price 15 cents.
- *Bulletin 106. Results of Investigations on the Rothamsted Soils. B. Dyer.
- Bulletin 107. Nutrition Investigations among Fruitarians and Chinese at the California Agricultural Experiment Station, 1899-1901. M. E. Jaffa. Price 5 cents.
- *Bulletin 108. Irrigation Practice among Fruit Growers on the Pacific Coast. E. J. Wickson. Price 15 cents.
- Bulletin 109. Experiments on the Metabolism of Matter and Energy in the Human Body, 1898-1900. W. O. Atwater, F. G. Benedict et al. Price 10 cents.
- Bulletin 110. Proceedings of the Sixth Annual Meeting of the American Association of Farmers' Institute Workers, held at Buffalo, N. Y., September 18 and 19, 1901. A. C. True, D. J. Crosby, and G. C. Creelman, editors. Price 5 cents.
- *Bulletin 111. Organization Lists of the Agricultural Colleges and Experiment Stations in the United States, with a List of Agricultural Experiment Stations in Foreign Countries, March, 1902. D. J. Crosby and M. T. Spethmann.
- Bulletin 112. Agricultural Experiment Stations in Foreign Countries. A. C. True and D. J. Crosby. Price 15 cents.
- Bulletin 113. Irrigation of Rice in the United States. F. Bond and G. H. Keeney. Price 10 cents.
- Bulletin 114. Statistics of the Land-Grant Colleges and Agricultural Experiment Stations of the United States for the Year Ended June 30, 1901. M. T. Spethmann.
- *Bulletin 115. Proceedings of the Fifteenth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D. C., November 12-14, 1901. A. C. True, W. H. Beal, and H. H. Goodell, editors.
- Bulletin 116. Dietary Studies in New York City in 1896 and 1897. W. O. Atwater and A. P. Bryant. Price 5 cents.
- Bulletin 117. Experiments on the Effect of Muscular Work on the Digestibility of Food and the Metabolism of Nitrogen. C. E. Wait. Price 5 cents.
- Bulletin 118. Irrigation from Big Thompson River. J. E. Field. Price 10 cents.
- *Bulletin 119. Report of Irrigation Investigations for 1901. E. Mead et al. Price 50 cents.
- *Bulletin 120. Proceedings of the Seventh Annual Meeting of the American Association of Farmers' Institute Workers, held at Washington, D. C., June 24-26, 1902. A. C. True, D. J. Crosby, and G. C. Creelman, editors.
- *Bulletin 121. Experiments on the Metabolism of Nitrogen, Sulphur, and Phosphorus in the Human Organism. H. C. Sherman. Price 5 cents.
- Bulletin 122. Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. D. J. Crosby and M. T. Spethmann.
- *Bulletin 123. Proceedings of the Sixteenth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Atlanta, Ga., October 7-9, 1902. A. C. True, W. H. Beal, and H. C. White, editors.
- Bulletin 124. Report of Irrigation Investigations in Utah. E. Mead et al. Price \$1.10.
- Bulletin 125. A Digest of Recent Experiments on Horse Feeding. C. F. Langworthy. Price 5 cents.
- Bulletin 126. Studies on the Digestibility and Nutritive Value of Bread at the University of Minnesota in 1900-1902. H. Snyder. Price 5 cents.
- Bulletin 127. Instruction in Agronomy at Some Agricultural Colleges. A. C. True and D. J. Crosby. Price 20 cents.
- Bulletin 128. Statistics of the Land-Grant Colleges and Agricultural Experiment Stations in the United States for the Year Ended June 30, 1902. M. T. Spethmann.
- Bulletin 129. Dietary Studies in Boston and Springfield, Mass., Philadelphia, Pa., and Chicago, Ill. R. D. Milner et al. Price 10 cents.
- Bulletin 130. Egyptian Irrigation: A Study of Irrigation Methods and Administration in Egypt. C. T. Johnston. Price 30 cents.
- Bulletin 131. Plans of Structures in Use on Irrigation Canals in the United States. E. Mead. Price 60 cents.

- Bulletin 132. Further Investigations among Frunitarians at the California Agricultural Experiment Station, 1901-2. M. E. Jaffa. Price 5 cents.
- *Bulletin 133. Report of Irrigation Investigations for 1902. E. Mead et al. Price 5 cents.
- Bulletin 134. Storage of Water on Cache la Poudre and Big Thompson Rivers. C. E. Tait. Price 10 cents.
- Bulletin 135. Legislation Relating to Farmers' Institutes in the United States and the Province of Ontario, Canada. J. Hamilton. Price 5 cents.
- Bulletin 136. Experiments on the Metabolism of Matter and Energy in the Human Body, 1900-1902. W. O. Atwater, F. G. Benedict, et al. Price 20 cents.
- Bulletin 137. Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. D. J. Crosby and M. T. Spethmann.
- *Bulletin 138. Proceedings of the Eighth Annual Meeting of the American Association of Farmers' Institute Workers, 1903. W. H. Beal and G. C. Creelman, editors.
- Bulletin 139. Special and Short Courses in Agricultural Colleges. D. J. Crosby. Price 5 cents.
- Bulletin 140. Acqureiment of Water Rights in the Arkansas Valley in Colorado. J. S. Greene. Price 5 cents.
- Bulletin 141. Experiments on Losses in Cooking Meat, 1900-1903. H. S. Grindley and T. Mojonniere. Price 5 cents.
- *Bulletin 142. Proceedings of the Seventeenth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D. C., November 17-19, 1903. A. C. True, W. H. Beal, and H. C. White, editors.
- Bulletin 143. Studies on the Digestibility and Nutritive Value of Bread at the Maine Agricultural Experiment Station, 1899-1903. C. D. Woods and L. H. Merrill. Price 5 cents.
- Bulletin 144. Irrigation in Northern Italy, Part 1. Elwood Mead. Price 20 cents.
- Bulletin 145. Preparing Land for Irrigation and Methods of Applying Water. Price 15 cents.
- Bulletin 146. Current Wheels: Their Use in Lifting Water for Irrigation. Price 10 cents.
- Bulletin 147. Report on Drainage Investigations, 1903. C. G. Elliott. Price 10 cents.
- *Bulletin 148. Report on Irrigation Investigations in Humid Sections of the United States in 1903. Elwood Mead et al. Price 10 cents.
- Bulletin 149. Studies of the Food of Maine Lumbermen. C. D. Woods and E. R. Mansfield. Price 10 cents.
- Bulletin 150. Dietary Studies at the Government Hospital for the Insane, Washington, D. C. H. A. Pratt and R. D. Milner. Price 15 cents.
- Bulletin 151. Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. D. J. Crosby and M. T. Spethmann.
- Bulletin 152. Dietary Studies with Harvard University Students. E. Mallinckrodt, jr. Price 5 cents.
- *Bulletin 153. Proceedings of the Eighteenth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Des Moines, Iowa, November 1-3, 1904. A. C. True, W. H. Beal, and H. C. White, editors.
- Bulletin 154. Proceedings of the Ninth Annual Meeting of the American Association of Farmers' Institute Workers, held at St. Louis, Mo., October 18-20, 1904. W. H. Beal, John Hamilton, and G. C. Creelman, editors.
- Bulletin 155. Agricultural Instruction for Adults in the British Empire. John Hamilton. Price 5 cents.
- Bulletin 156. Studies on the Digestibility and Nutritive Value of Bread and of Macaroni at the University of Minnesota, 1903-1905. Harry Snyder. Price 5 cents.
- *Bulletin 157. Water Rights on Interstate Streams: The Platte River and Tributaries. R. P. Teele and Elwood Mead. Price 10 cents.
- *Bulletin 158. Annual Report of Irrigation and Drainage Investigations, 1904. Elwood Mead et al.
- Bulletin 159. A Digest of Japanese Investigations on the Nutrition of Man. Kintaro Oshima. Price 15 cents.
- Bulletin 160. School Gardens: A Report upon Some Cooperative Work with the Normal Schools of Washington, with Notes on School-Garden Methods Followed in other American Cities. B. T. Galloway. Price 10 cents.
- Bulletin 161. Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. Price 5 cents.
- *Bulletin 162. Studies on the Influence of Cooking Upon the Nutritive Value of Meats at the University of Illinois, 1903-4. H. S. Grindley and A. D. Emmett. Price 15 cents.
- Bulletin 163. Agricultural Instruction for Adults in Continental Countries. John Hamilton. Price 5 cents.
- *Bulletin 164. Proceedings of the Nineteenth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D. C., November 14-16, 1905. A. C. True, W. H. Beal, and H. C. White, editors. Price 10 cents.
- Bulletin 165. Proceedings of the Tenth Annual Meeting of the American Association of Farmers' Institute Workers, held at Washington, D. C., November 9-11, 1905. W. H. Beal, John Hamilton, and G. C. Creelman, editors. Price 15 cents.
- Bulletin 166. Course in Cheese Making for Movable Schools of Agriculture. L. L. Van Slyke. Price 10 cents.

MISCELLANEOUS BULLETINS.^a

[The supply of these bulletins is exhausted.]

- *Bulletin 1. Proceedings of the Second Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Knoxville, Tenn., January 1-3, 1889. A. W. Harris and H. E. Alvord, editors.
- *Bulletin 2. Proceedings of the Third Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D. C., November 12-15, 1889. A. W. Harris and H. E. Alvord, editors.
- *Bulletin 3. Proceedings of the Fourth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, held at Champaign, Ill., November 11-13, 1890. A. W. Harris and H. E. Alvord, editors.

CIRCULARS.

The circulars of the Office are for free distribution as far as they are available. Those marked with an asterisk (*) in the following list are no longer available. Nos. 2-6, 9, 10, 12-17, 21, 24, and 26 are letters of inquiry or information, or address lists possessing no permanent value, and are therefore omitted from the lists.

- *Circular 1. List of Agricultural Experiment Stations in the United States February 1, 1889.
- *Circular 7. Cooperative Field Experiments with Fertilizers.
- *Circular 8. Explanations and Directions for Soil Tests with Fertilizers.
- *Circular 11. Rules for Naming Vegetables. Report of Committee of Experiment Station Horticulturists.
- *Circular 18. List of Originators of Fruits and Vegetables in the United States.
- *Circular 19. Experiments with Fertilizers on Fruits and Vegetables to Study the Feeding Capacities of the Plants and the Variations due to the Action of Fertilizers. W. O. Atwater.
- *Circular 20. Organization List of the Agricultural Experiment Stations in the United States, 1891.
- *Circular 22. Subject Index of the Literature of Agricultural Experiment Stations and Kindred Institutions. A. W. Harris.
- Circular 23. Key to Subject Index of Literature of Agricultural Experiment Stations and Kindred Institutions.
- Circular 25. Cañaigre (*Rumex hymenosepalus*).
- Circular 27. Statistics of Agricultural Colleges and Experiment Stations, 1894.
- Circular 28. Broom Corn (*Andropogon sorghum vulgaris*).
- *Circular 29. Work and Expenditures of Agricultural Experiment Stations. A. C. True.
- *Circular 30. Permanent Elements in Experiment Station Work. A. C. True.
- *Circular 31. Some Books on Agriculture and Agricultural Science, Published in 1893-1896. A. C. True.
- *Circular 32. Report of Committee on Methods of Teaching Agriculture.
- Circular 33. Civil Service in the Department of Agriculture. C. W. Dabney, jr.
- Circular 34. Rules and Apparatus for Seed Testing.
- *Circular 35. Statistics of Land-Grant Colleges and Agricultural Experiment Stations, 1896. A. C. True.
- *Circular 36. Constitution of the Association of American Agricultural Colleges and Experiment Stations.
- *Circular 37. Second Report of Committee on Methods of Teaching Agriculture.
- *Circular 38. Some Books on Agriculture and Sciences Related to Agriculture, Published 1896-1898.
- Circular 39. Third Report of Committee on Methods of Teaching Agriculture.
- Circular 40. Land-Grant and Other Colleges and the National Defense. C. W. Dabney, jr.
- *Circular 41. Fourth Report of Committee on Methods of Teaching Agriculture.
- Circular 42. A German Common School with a Garden. C. B. Smith.
- *Circular 43. Food—Nutrients—Food Economy.
- Circular 44. Agricultural Experiment Stations in the United States.
- *Circular 45. Fifth Report of Committee on Methods of Teaching Agriculture.
- Circular 46. The Functions and Uses of Food. C. F. Langworthy.
- Circular 47. Card Index of Experiment Station Literature. A. C. True.
- *Circular 48. What the Department of Agriculture is Doing for Irrigation. E. Mead.
- Circular 49. Secondary Courses in Agriculture. A. C. True et al.
- *Circular 50. Preliminary Plans and Estimates for Drainage of Fresno District, California. C. G. Elliott.
- Circular 51. List of State Directors of Farmers' Institutes and Farmers' Institute Lecturers of the United States. J. Hamilton.
- Circular 52. A Few Good Books and Bulletins on Nature Study, School Gardening, and Elementary Agriculture for Common Schools. D. J. Crosby.

^aSeries discontinued after third number.

- Circular 53. Report of the Committee on Rural Engineering of the Association of American Agricultural Colleges and Experiment Stations. W. E. Stone et al.
- *Circular 54. Report of Committee on Indexing Agricultural Literature. A. C. True et al.
- *Circular 55. The Relation of the Natural Sciences to Agriculture in a Four-Year College Course. A. C. True et al.
- Circular 56. Constitution of the Association of American Agricultural Colleges and Experiment Stations, as amended at the Seventeenth Annual Convention of the Association, Washington, D. C., November 17-19, 1903.
- *Circular 57. Supplemental Report on Drainage in the Fresno District, California. C. G. Elliott.
- Circular 58. Irrigation in the Valley of Lost River, Idaho. A. E. Wright.
- *Circular 59. Progress Report of Cooperative Irrigation Investigations in California. S. Fortier.
- Circular 60. The Teaching of Agriculture in the Rural Common Schools.
- Circular 61. Statistics of Land-Grant Colleges and Agricultural Experiment Stations, 1904. M. T. Spethmann.
- Circular 62. List of abbreviations employed in Experiment Station Record for Titles of Periodicals. E. W. Allen and D. K. Murphy.
- *Circular 63. The Work of the Office of Experiment Stations in Irrigation and Drainage.
- Circular 64. Statistics of Land-Grant Colleges and Agricultural Experiment Stations, 1905. M. T. Spethmann.
- Circular 65. Irrigation from Snake River, Idaho. H. G. Raschbacher.
- Circular 66. Publications of the Office of Experiment Station Issued During 1905, and Station Publications Received by the Office of Experiment Stations During 1905.

FARMERS' BULLETINS.

All Farmers' Bulletins are for free distribution and can be obtained as far as they are available by applying to the Secretary of Agriculture or to a Senator or Representative in Congress. Nos. 1, 2, 9, 11, 14, 16, 18, 21, 23, 26, and 76 are no longer available for distribution.

Bulletins of the Experiment Station Work series are issued at regular bimonthly intervals, first in large editions in the regular Farmers' Bulletin series of the Department, and afterwards in smaller editions with consecutive paging so that they may be bound with index, tables of contents, etc., in convenient form for reference.

- Bulletin 1. The What and Why of Agricultural Experiment Stations. W. O. Atwater.
- Bulletin 2. The Work of the Agricultural Experiment Stations. W. O. Atwater.
- Bulletin 9. Milk Fermentations and Their Relations to Dairying. A. W. Harris.
- Bulletin 11. The Rape Plant: Its History, Culture, and Uses. T. Shaw.
- Bulletin 14. Fertilizers for Cotton. J. M. McBryde.
- Bulletin 16. Leguminous Plants for Green Manuring and for Feeding. E. W. Allen.
- Bulletin 18. Forage Plants for the South. S. M. Traey.
- Bulletin 21. Barnyard Manure. W. H. Beal. (Replaced by Bulletin 192.)
- Bulletin 22. The Feeding of Farm Animals. E. W. Allen.
- Bulletin 23. Foods: Nutritive Value and Cost. W. O. Atwater.
- Bulletin 25. Peanuts: Culture and Uses. R. B. Handy.
- Bulletin 26. Sweet Potatoes: Culture and Uses. J. F. Duggar.
- Bulletin 29. Souring of Milk and Other Changes in Milk Products.
- Bulletin 32. Silos and Silage. C. S. Plumb.
- Bulletin 34. Meats: Composition and Cooking. C. D. Woods.
- Bulletin 35. Potato Culture. J. F. Duggar.
- Bulletin 36. Cotton Seed and Its Products.
- Bulletin 37. Kafir Corn: Characteristics, Culture, and Uses. C. C. Georgeson.
- Bulletin 39. Onion Culture. R. L. Watts.
- Bulletin 41. Fowls: Care and Feeding. G. C. Watson.
- Bulletin 44. Commercial Fertilizers: Composition and Use. E. B. Voorhees.
- Bulletin 46. Irrigation in Humid Climates. F. H. King.
- Bulletin 48. The Manuring of Cotton.
- Bulletin 49. Sheep Feeding. J. A. Craig.
- Bulletin 56. Experiment Station Work—I.
- Bulletin 65. Experiment Station Work—II.
- Bulletin 69. Experiment Station Work—III.
- Bulletin 73. Experiment Station Work—IV.

- Bulletin 74. Milk as Food.
- Bulletin 76. Tomato Growing. E. B. Voorhees.
- Bulletin 77. The Liming of Soils. H. J. Wheeler.
- Bulletin 78. Experiment Station Work—V.
- Bulletin 79. Experiment Station Work—VI.
- Bulletin 81. Corn Culture in the South. S. M. Tracy.
- Bulletin 84. Experiment Station Work—VII.
- Bulletin 85. Fish as Food. C. F. Langworthy.
- Bulletin 87. Experiment Station Work—VIII.
- Bulletin 92. Experiment Station Work—IX.
- Bulletin 93. Sugar as Food. Mary H. Abel.
- Bulletin 97. Experiment Station Work—X.
- Bulletin 103. Experiment Station Work—XI.
- Bulletin 105. Experiment Station Work—XII.
- Bulletin 107. Experiment Station Work—XIII.
- Bulletin 109. Farmers' Reading Courses.
- Bulletin 112. Bread and the Principles of Bread Making. Helen W. Atwater.
- Bulletin 114. Experiment Station Work—XIV.
- Bulletin 116. Irrigation in Fruit Growing. E. J. Wickson.
- Bulletin 119. Experiment Station Work—XV.
- Bulletin 121. Beans, Peas, and Other Legumes as Food. Mary Hinman Abel.
- Bulletin 122. Experiment Station Work—XVI.
- Bulletin 124. Experiment Station Work—XVII.
- Bulletin 128. Eggs and Their Uses as Food. C. F. Langworthy.
- Bulletin 133. Experiment Station Work—XVIII.
- Bulletin 138. Irrigation in Field and Garden. E. J. Wickson.
- Bulletin 142. Principles of Nutrition and Nutritive Value of Food. W. O. Atwater.
- Bulletin 144. Experiment Station Work—XIX.
- Bulletin 149. Experiment Station Work—XX.
- Bulletin 158. How to Build Small Irrigation Ditches. C. T. Johnston and J. D. Stannard.
- Bulletin 162. Experiment Station Work—XXI.
- Bulletin 169. Experiment Station Work—XXII.
- Bulletin 170. Principles of Horse Feeding. C. F. Langworthy.
- Bulletin 182. Poultry as Food. H. W. Atwater.
- Bulletin 186. Experiment Station Work—XXIII.
- Bulletin 187. Drainage of Farm Lands. C. G. Elliott.
- Bulletin 190. Experiment Station Work—XXIV.
- Bulletin 192. Barnyard Manure. W. H. Beal.
- Bulletin 193. Experiment Station Work—XXV.
- Bulletin 202. Experiment Station Work—XXVI.
- Bulletin 203. Canned Fruit, Preserves, and Jellies. Maria Parloa.
- Bulletin 210. Experiment Station Work—XXVII.
- Bulletin 222. Experiment Station Work—XXVIII.
- Bulletin 225. Experiment Station Work—XXIX.
- Bulletin 227. Experiment Station Work—XXX.
- Bulletin 233. Experiment Station Work—XXXI.
- Bulletin 234. The Guinea Fowl and its Use as Food. C. F. Langworthy.
- Bulletin 237. Experiment Station Work—XXXII.
- Bulletin 244. Experiment Station Work—XXXIII.
- Bulletin 249. Cereal Breakfast Food. C. D. Woods and Harry Snyder.
- Bulletin 251. Experiment Station Work—XXXIV.
- Bulletin 256. Preparation of Vegetables for the Table. Maria Parloa.
- Bulletin 259. Experiment Station Work—XXXV.

FARMERS' INSTITUTE LECTURES.

These publications are for free distribution, but are designed especially for the use of farmers' institute lecturers, and their distribution is therefore restricted to those especially interested in such work.

- Lecture 1. Syllabus of Illustrated Lecture on the Care of Milk. R. A. Pearson.
- Lecture 2. Syllabus of Illustrated Lecture on Potato Diseases and their Treatment. F. C. Stewart and H. J. Eustace.
- Lecture 3. Syllabus of Illustrated Lecture on Acid Soils. H. J. Wheeler.
- Lecture 4. Syllabus of Illustrated Lecture on Profitable Cattle Feeding. F. B. Mumford.
- Lecture 5. Syllabus of Illustrated Lecture on Silage and Silo Construction for the South. A. M. Soule.
- Lecture 6. Syllabus of Illustrated Lecture on Essentials of Successful Experimentation. C. E. Thorne.

ARTICLES IN THE YEARBOOK OF THE DEPARTMENT.

These are brief popular articles. They are issued as separates and intended for free distribution. Those not marked with an asterisk (*) are available for distribution.

- * Education and Research in Agriculture in the United States (Yearbook 1894, pp. 81-116). A. C. True.
- * Food and Diet; Human Foods (Yearbook 1894, pp. 357-388, 547-558). W. O. Atwater.
- * The Feeding Value of Corn Stover (Yearbook 1896, pp. 353-360). J. B. Lindsey.
- * Origin, Value, and Reclamation of Alkali Lands (Yearbook 1895, pp. 103-122). E. W. Hilgard.
- * The Improvement of our Native Fruits (Yearbook 1896, pp. 297-304). L. H. Bailey.
- * Agricultural Education and Research in Belgium (Yearbook 1896, pp. 361-370). A. C. True.
- * Office of Experiment Stations (Yearbook 1897, pp. 135-143). A. C. True.
- * Popular Education for the Farmer in the United States (Yearbook 1897, pp. 279-290). A. C. True.
- * The Needs and Requirements of a Control of Feeding Stuffs (Yearbook 1897, pp. 421-428). E. W. Allen.
- * The Agricultural Outlook on the Coast of Alaska (Yearbook 1897, pp. 553-576). W. H. Evans.
- * Foods for Man (Yearbook 1897, pp. 676-682).
- * Some Types of American Agricultural Colleges (Yearbook 1898, pp. 63-80). A. C. True.
- * Some Results of Dietary Studies in the United States (Yearbook 1898, pp. 439-452). A. P. Bryant.
- * Agricultural Experiments in Alaska (Yearbook 1898, pp. 515-524). C. C. Georgeson.
- * Agricultural Education in the United States (Yearbook 1899, pp. 157-190). A. C. True.
- * Development of the Nutrition Investigations of the Department of Agriculture (Yearbook 1899, pp. 403-414). A. C. True and R. D. Milner.
- * Agricultural Experiment Stations in the United States (Yearbook 1899, pp. 513-543). A. C. True.
- * Rise and Future of Irrigation in the United States (Yearbook 1899, pp. 591-612). Elwood Mead.
- Agricultural Education in France (Yearbook 1900, pp. 115-130). C. B. Smith.
- The Value of Potatoes as Food (Yearbook 1900, pp. 337-348). C. F. Langworthy.
- * Practical Irrigation (Yearbook 1900, pp. 491-512). C. T. Johnston and J. D. Stannard.
- Some Problems of the Rural Common School (Yearbook 1901, pp. 133-154). A. C. True.
- Dietaries in Public Institutions (Yearbook 1901, pp. 393-408). W. O. Atwater.
- * Some Typical Reservoirs in the Rocky Mountain States (Yearbook 1901, pp. 415-430). E. Mead.
- Some Engineering Features of Drainage (Yearbook 1902, pp. 231-244). C. G. Elliott.
- The Cost of Food as Related to its Nutritive Value (Yearbook 1902, pp. 387-406). R. D. Milner.
- Progress in Secondary Education in Agriculture (Yearbook 1902, pp. 481-500). A. C. True.
- Some Practical Results of Experiment Station Work (Yearbook 1902, pp. 589-606). W. H. Beal.
- The Farmers' Institutes (Yearbook 1903, pp. 149-158). John Hamilton.
- Wheat Flour and Bread (Yearbook 1903, pp. 347-362). Harry Snyder and C. D. Woods.
- Preparing Land for Irrigation (Yearbook 1903, pp. 239-250). R. P. Teale.
- The Respiration Calorimeter (Yearbook 1904, pp. 205-220). W. O. Atwater and F. G. Benedict.
- * Potato Culture near Greeley, Colo. (Yearbook 1904, pp. 311-322). J. Max Clark.
- Boys' Agricultural Clubs (Yearbook 1904, pp. 489-496). Dick J. Crosby.
- Some Ways in Which the Department of Agriculture and the Experiment Stations Supplement Each Other (Yearbook 1905, pp. 167-182). E. W. Allen.
- The Use of Illustrative Material in Teaching Agriculture in Rural Schools (Yearbook 1905, pp. 257-274). Dick J. Crosby.
- Fruit and Its Uses as Food (Yearbook 1905, pp. 307-324). C. F. Langworthy.
- Illustrations of the Influence of Experiment Station Work on Culture of Field Crops (Yearbook 1905, pp. 407-422). J. I. Schulte.
- The Relation of Irrigation to Dry Farming (Yearbook 1905, pp. 423-438). Elwood Mead.

BIMONTHLY LISTS OF STATION PUBLICATIONS.

The issue of these lists began with January, 1904. Each number gives a list of station publications received by the Office during the two months next preceding the date of transmittal of the list to the printer. The lists are printed in limited edition and are intended mainly for the use of experiment station officials, farmers' institute workers, librarians, and others specially interested in keeping track of station publications.

Document 646. Publications received during November and December, 1903.

Document 652. Publications received during January and February, 1904.

Document 662. Publications received during March and April, 1904.

Document 722. Publications received during May and June, 1904.
 Document 732. Publications received during July and August, 1904.
 Document 745. Publications received during September and October, 1904.
 Document 751. Publications received during November and December, 1904.
 Document 759. Publications received during January and February, 1905.
 Document 774. Publications received during March and April, 1905.
 Document 821. Publications received during May and June, 1905.
 Document 828. Publications received during July and August, 1905.
 Document 847. Publications received during September and October, 1905.
 Document 858. Publications received during November and December, 1905.
 Document 872. Publications received during January and February, 1906.
 Document 890. Publications received during March and April, 1906.

CARD INDEX OF EXPERIMENT STATION LITERATURE.

This index is printed on cards of standard library size, 2 by 5 inches, each card containing the title of an article, the name of its author, a reference to the publication in which it appeared and to the Experiment Station Record in which an abstract of the article may be found, and a condensed statement of its contents. Twenty-seven thousand cards were issued up to June 30, 1906.

One copy of the index with a key containing the system of classification is sent without charge to each of the agricultural colleges and experiment stations and to certain of the State boards and commissioners of agriculture. Besides this free distribution, the Office is prepared, under the authority of the law, to furnish a limited number of sets of the index at a price only sufficient to cover additional cost of printing. This is estimated at \$2 per thousand cards. For the division cards an additional charge of \$1.25 is made. A few sets have been broken, and portions of these also may be obtained at the same rate per thousand cards.

Payments should be made by United States money order in favor of A. Zappone, disbursing officer, but, like all other communications relating to the index, should be forwarded in envelopes addressed to the Director of the Office of Experiment Stations.

CHARTS.

One set of four food and diet charts by W. O. Atwater (no longer available).

LISTS OF PUBLICATIONS.

Classified lists of the publications of the Office relating to food and nutrition of man, irrigation and drainage, and agricultural education are issued from time to time and are available for free distribution.

Recommended for publication.

A. C. TRUE, *Director*.

Publication authorized.

JAMES WILSON, *Secretary of Agriculture*.

WASHINGTON, D. C., *December 26, 1906.*

[Cir. 70]